Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.51	04/07/2017 04/07/2017	Bob Duffey

LM Start		Rating **	Α	Issue No.		2	
LM End		Issue Type +	Location *		N/A		
Earthen Levee			GPS La	atitude	/Longitude		
Calegory	Category			Start		End	
Item		s & Maintena	nce		0		0
пеш	Manuals	Manuals			0		0
DWR ID	DWR ID DWR_ST0009_01_s _ 2013_2						
		Comn	nent Cod	le			
		Inspecto	or Comm	nent			
Sutter Yard has the O&M manuals.							

No Photos

LM Start		Rating **	Α	Issue No.		4		
LM End		Issue Type +	Ма	Location *		N/A		
Category	Catagoria Earthen Levee					le/Longitude		
Category				Start		End		
Item	Emergency Supplies &				0		0	
пеш	Equipmen	nt			0		0	
DWR ID	DWR_ST0	009_01_s _ 201	3_4					
		Comn	nent Cod	de				
	Inspector Comment							
Sutter Yard	Sutter Yard has a stockpile of emergency supplies and equipment.							

No Photos

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy

Ob : Design & System Obsolescence

En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.51	04/07/2017 04/07/2017	Bob Duffey

LM Start		Rating **	Α	Issue No.		5		
LM End		Issue Type + Ma Location * N/A						
Category	Earthen L	evee		GPS La	atituc	le/Longitude		
Category				Start		End		
Item	Flood Pre	paredness &	Training		0		0	
item					0		0	
DWR ID	DWR_ST0	DWR_ST0009_01_s _ 2013_5						
		Comn	nent Cod	le				
	Inspector Comment							
Sutter Yar	Sutter Yard had flood fight training October 2016.							
	-							

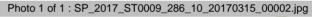
No Photos

LM Start	0.03	0.03 Rating ** M		Issue No.		10		
LM End	0.03	Issue Type + Ma		Location *		LS		
Category	Earthen L	evee	GPS La	atitud	le/Longitude			
Calegory				Start		End		
Item	Vegetatio	n		39.0272	53°	39.027253 °		
iteiii	-121.821330 ° -121.821330							
DWR ID DWR_ST0009_01_f _ 2016_10								
		_	. ^					

Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment





View of grass taller than 12 inches blocking visibility.

LM Start	2.11	Rating **	М	Issue No.		11				
LM End	2.11	Issue Type +	Ма	Location *	LS					
Category	Earthen L	evee	GPS La	titud	e/Longitude					
Calegory	Start End									
Item	Animal Co	ontrol		39.0283	92 °	39.028392°				
пеш	-121.782887 ° -121.782887 °									
DWR ID	DWR ID DWR_ST0009_01_f _ 2016_11									
		Comp	Commont Codo							

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment



View of the rodent holes along the landside slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.51	04/07/2017 04/07/2017	Bob Duffey

LM Start	2.14	Rating **	A/W	Issue No.		25	
LM End	2.14	Issue Type +	Ma	Location *	LS		
Category	Suppleme	ental		GPS La	atitud	le/Longitude	
Calegory				Start		End	
Item	DWR UC	IP LMA Respo	onsibility	39.0281	32 °	39.028132 °	
пеш				-121.7823	89°	-121.782389 °	
DWR ID							

Comment Code

Inspector Comment

FS_ID:51484 DS_ID:16591 EP_NO: 10099

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 4/10/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/11/2016 Crossing appears to be in good condition. (DWR Sutter Yard - afreitag)4/18/2016 Crossing appears to be in good condition. No noticeable issues to report.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/13/2014 Same as last inspection.5/12/2014 Same as last inspection.10/30/2013 Same as last inspection.5/20/2013 Same as last inspection.

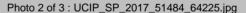
FIELD_STRUCT_DESC: 1 of 2: 48-inch by 84-inch (4-foot by 7-foot) reinforced concrete discharge tunnel through the levee, 38 feet below the crown. Slide gate in 4-foot by 15-foot concrete well on the waterside (WS) slope. Pump house located on the landside (LS) toe and wooden flap gates on the WS toe. (Automatic Board Order (ABO) issued as Permit No. 10099, 1955 - Reclamation District No. 1660). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 133, August 1955 (Station 1044+60)].

FS Date: 4/12/2017 9:20:05 AM

LM Start	2.14	Rating **	A/W	Issue No.	25 (cont)
LM End	2.14	Issue Type +	Ma	Location *	LS

Photo 1 of 3 : UCIP_SP_2017_51484_64226.jpg

Slide gates on WS shoulder.





Wooden Flap gates on WS toe.

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.51	04/07/2017 04/07/2017	Bob Duffey

LM Start	2.14	Rating **	A/W	Issue No.		25 (cont)		
LM End	2.14	Issue Type +	Ма	Location *		LS		
Supplemental				GPS Latitude/Longitude				
Calegory				Start		End		
Item	DWR UC	IP LMA Respo	onsibility	39.028132°		39.028132°		
пеш				-121.7823	89°	-121.782389 °		
DWR ID								
	Comment Code							

Inspector Comment

FS_ID:51484 DS_ID:16591 EP_NO: 10099

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 4/10/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/11/2016 Crossing appears to be in good condition. (DWR Sutter Yard - afreitag)4/18/2016 Crossing appears to be in good condition. No noticeable issues to report.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/13/2014 Same as last inspection.5/12/2014 Same as last inspection.10/30/2013 Same as last inspection.5/20/2013 Same as last inspection.

FIELD_STRUCT_DESC: 1 of 2: 48-inch by 84-inch (4-foot by 7-foot) reinforced concrete discharge tunnel through the levee, 38 feet below the crown. Slide gate in 4-foot by 15-foot concrete well on the waterside (WS) slope. Pump house located on the landside (LS) toe and wooden flap gates on the WS toe. (Automatic Board Order (ABO) issued as Permit No. 10099, 1955 - Reclamation District No. 1660). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 133, August 1955 (Station 1044+60)].

FS Date: 4/12/2017 9:20:05 AM



Pump house on LS toe.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.51	04/07/2017 04/07/2017	Bob Duffey

LM Start	2.14	Rating **	A/W	Issue No.		26	
LM End	2.14	Issue Type +	Ма	Location *		LS	
Category	Supplemental			GPS Latitude/Longitude			
Calegory				Start		End	
Item	DWR UCIP LMA Responsibility			39.02812	24°	39.028124°	
пеш				-121.78234	4 °	-121.782344 °	
DWR ID							

Comment Code

Inspector Comment

FS_ID:51485 DS_ID:16856 EP_NO: 10099

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 4/10/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/11/2016 Crossing appears to be in good condition. (DWR Sutter Yard - afreitag)4/18/2016 Crossing appears to be in good condition. No noticeable issues to report.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/13/2014 Same as last inspection.5/12/2014 Same as last inspection.10/30/2013 Same as last inspection.5/20/2013 Same as last inspection.

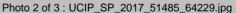
FIELD_STRUCT_DESC: 2 of 2: 48-inch by 84-inch (4-foot by 7-foot) concrete discharge tunnel through the levee, 38 feet below the crown. Slide gate in 4-foot by 15-foot concrete well on the waterside (WS) slope. Pumphouse located on the landside (LS) toe and wooden flap gates on the WS toe. (Automatic Board Order (ABO) issued as Permit No. 10099, 1955 - Reclamation District No. 1660). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 133, August 1955 (Station 1044+60)].

FS Date: 4/12/2017 9:20:37 AM

LM Start	2.14	Rating **	A/W	Issue No.	26 (cont)
LM End	2.14	Issue Type +	Ма	Location *	LS



Slide gates on WS shoulder.





Wooden flap gates on WS toe.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.51	04/07/2017 04/07/2017	Bob Duffey

LM Start	2.14	Rating **	A/W	Issue No.		26 (cont)
LM End	2.14	Issue Type +	Ma	Location *		LS
Category	Supplemental			GPS La	atitud	le/Longitude
Calegory				Start		End
Itom	ltem DWR UCIP LMA Responsibility			39.0281	24°	39.028124°
пеш				-121.7823	44 °	-121.782344 °
DWR ID						

Comment Code

Inspector Comment

FS_ID:51485 DS_ID:16856 EP_NO: 10099

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 4/10/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/11/2016 Crossing appears to be in good condition. (DWR Sutter Yard - afreitag)4/18/2016 Crossing appears to be in good condition. No noticeable issues to report.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/13/2014 Same as last inspection.5/12/2014 Same as last inspection.10/30/2013 Same as last inspection.5/20/2013 Same as last inspection.

FIELD_STRUCT_DESC: 2 of 2: 48-inch by 84-inch (4-foot by 7-foot) concrete discharge tunnel through the levee, 38 feet below the crown. Slide gate in 4-foot by 15-foot concrete well on the waterside (WS) slope. Pumphouse located on the landside (LS) toe and wooden flap gates on the WS toe. (Automatic Board Order (ABO) issued as Permit No. 10099, 1955 - Reclamation District No. 1660). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 133, August 1955 (Station 1044+60)].

FS Date: 4/12/2017 9:20:37 AM



Pump house on LS toe.

LM Start	2.16	Rating **	U	Issue No.		12
LM End	2.16	Issue Type +	Ma	la Location *		LS
Category Earthen Levee			GPS Latitude/Longitude			
Calegory			Start		End	
Item	Animal Co	ontrol		39.02813	37°	39.028137°
пеш			-121.78202	20°	-121.782020 °	
DWR ID DWR_ST0009_01_f _ 2016_12						
		^	. ^			

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment



View of a rodent hole along the levee crown.

* Location		** Rating		+ Issue Type
LS: Land Side	N/A: Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS: Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescen
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.51	04/07/2017 04/07/2017	Bob Duffey

LM Otant	2.16	Rating **	U	Issue No.		12 (cont)			
LM Start									
LM End	2.16	Issue Type +	Ма	Location *		LS			
Category	Earthen L	evee		GPS Latitude/Longitude					
Calegory				Start		End			
Item	Animal Co	ontrol		39.0281	37°	39.028137°			
item		20°	-121.782020 °						
DWR ID DWR_ST0009_01_f _ 2016_12									
		Comn	nent Cod	le					
A3 : No roo		le, but rodent rows.	burrows	visible; nee	ed to	backfill and			
		Inspecto	or Comm	nent					



Another view of the rodent holes along the crown and landside slope.

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy

Ob : Design & System Obsolescence

En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Tisdale Bypass	Right	4.43	04/07/2017 04/07/2017	Bob Duffey

LM Start	0.69	Rating **	М	Issue No.		9
LM End	0.71	Issue Type +	Ma	Location *		LS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Calegory				Start		End
Item	Erosion / Bank Caving			39.0256	02°	39.025657°
item				-121.808527 °		27° -121.808027°
DWR ID	DWR ID DWR_ST0009_02_s _ 2017_9					
		Comn	nent Cod	de		
E2 : Schedule repair of erosion site prior to the next inspection.						
Inspector Comment						
Repair the erosion along the landside toe.						



View of the erosion along the landside toe from the County Road.

11101	0.07	Rating **	М	Issue No.		10
LM Start	0.97	Rating	IVI	issue ivo.		10
LM End	0.98	Issue Type +	Ma	Location *		LS
Category	Earthen L	evee		GPS La	atitud	le/Longitude
Category			Start		End	
Itom	Item Erosion / Bank Caving			39.0255	40°	39.025572°
пеш				-121.803272 °		-121.802990 °
DWR ID	DWR ID DWR_ST0009_02_s _ 2017_10					
		Comn	nent Cod	le		
E2 : Schedule repair of erosion site prior to the next inspection.						
Inspector Comment						
Repair the erosion along the landside toe.						



View of the erosion along the landside toe from the County Road.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Tisdale Bypass	Right	4.43	04/07/2017 04/07/2017	Bob Duffey

LM Start	1.14	Rating **	М	Issue No.		13	
LM End	1.14	Issue Type +	Ma	Location *		WS	
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Calegory				Start		End	
ltom	Item Erosion / Bank Caving			39.0254	60°	39.025460 °	
пеш				-121.800022 °		-121.800022 °	
DWR ID DWR_ST0009_02_f _ 2016_13							
		Comn	nent Cod	le			
E2 : Schedule repair of erosion site prior to the next inspection.							
Inspector Comment							
Erosion around the WS concrete vault.							

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Se Sultania Se	
	_111/02/2016

Photo 1 of 2: SP_2017_ST0009_287_13_20170315_00005.jpg

View of the erosion along the concrete vault.

LM Start 1.14 Rating ** M Issue No. 13 (cont) LM End 1.14 Issue Type + Ma Location * WS

Photo 2 of 2: SP_2017_ST0009_287_13_20170315_00006.jpg



Another view of the erosion along the concrete vault.

LM Start	1.19	Rating **	М	Issue No.		290
LM End	1.19	Issue Type +	Ma	Location *		WS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Calegory			Start		End	
Item	Erosion / Bank Caving			39.0254	90°	39.025490 °
item					40°	-121.799240 °
DWR ID	DWR_ST0009_02_s _ 2015_290					
		Comn	nent Coc	le		
E1 : Note and monitor erosion site.						
Inspector Comment						
Sutter Yard needs to monitor the erosion along the berm.						



View of the erosion along the waterside berm.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Tisdale Bypass	Right	4.43	04/07/2017 04/07/2017	Bob Duffey

LM Start	1.29	Rating **	М	Issue No.		4
LM End	1.29	Issue Type +	Ma	Location *		WS
Catagony	Earthen L	evee		GPS La	atitud	e/Longitude
Category			Start		End	
Item	Erosion / Bank Caving			39.025478°		39.025478°
пеш				-121.797232 °		-121.797232°
DWR ID DWR_ST0009_02_s _ 2013_4						
		Comn	nent Cod	le		
E2 : Schedule repair of erosion site prior to the next inspection.						
Inspector Comment						
Sutter Yard needs to monitor the erosion.						

Photo 1 of 1 : SP_2017_ST0009_287_4_20170315_00003.jpg
137/1/200

View of the erosion along the waterside berm.

LM Start	1.48	Rating **	М	Issue No.	5	
LM End	1.50	Issue Type +	Ма	Location *	WS	
Category	Earthen L	evee		GPS L	atitud	le/Longitude
Calegory			Start		End	
ltom	Item Erosion / Bank Caving			39.025460 °		39.025446 °
пеш				-121.793815 °		-121.793347°
DWR ID	DWR ID DWR_ST0009_02_s _ 2013_5					
		Comn	nent Cod	le		
E2 : Sched	dule repair	of erosion site	e prior to	the next in	spe	ction.
Inspector Comment						
Sutter Yard needs to monitor the erosion.						

Photo 1 of 1: SP_2017_ST0009_287_5_20170315_00004.jpg	
A CONTRACTOR OF THE PARTY OF TH	
1170274018	

View of the erosion along the waterside berm.

LM Start	3.93	Rating **	М	Issue No.	2			
LM End	3.93	Issue Type +	Ма	Location *		WS		
Category	Earthen Levee			GPS Latitude/Longitude				
Calegory			Start		End			
Item	Erosion / Bank Caving			39.025060 °		39.025060°		
			-121.748178 °		-121.748178°			
DWR ID DWR_ST0009_02_f _ 2016_2								
Comment Code								
E1 : Note and monitor erosion site.								
Inspector Comment								



View of the erosion along the waterside berm.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Tisdale Bypass	Right	4.43	04/07/2017 04/07/2017	Bob Duffey

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type
Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence
En : Enforcement